

37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

*Amendments*

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*In the Claims:*

Please cancel claims 2-5, 9-17, 22, 23 without prejudice or disclaimer.

Please substitute the following claims 1, 6, 7, 8, 18, 19, 20 and 21 for the pending claims 1, 6, 7, 8, 18, 19, 20, and 21:

*Sub B1*  
A<sub>1</sub>  
1. (Once Amended) A method of producing an amino acid selected from the group consisting of L-lysine, L-threonine and L-isoleucine comprising:

culturing an altered *Corynebacterium glutamicum* cell having an increased amount of NADPH as compared to an unaltered *Corynebacterium glutamicum* cell, wherein yields of an amino acid selected from the group consisting of L-lysine, L-threonine and L-isoleucine from said altered *Corynebacterium glutamicum* cell are greater than yields from an unaltered *Corynebacterium glutamicum* cell.

*Sub B2*  
A<sub>2</sub>  
6. (Once Amended) The method of claim 1, wherein said L-amino acid yields from said cultured *Corynebacterium glutamicum* cell are from about 1% to about 100% greater than from said unaltered *Corynebacterium glutamicum* cell.

*Sub C1*  
7. (Once Amended) The method of claim 1, wherein said altered *Corynebacterium glutamicum* cell has a mutant phosphoglucose isomerase (*pgi*) gene.

8. (Once Amended) The method of claim 1, wherein said altered *Corynebacterium glutamicum* cell is produced by
- (a) subcloning an internal region of a *pgi* gene; and
  - (b) inserting said resulting vector from step (a) into a *Corynebacterium glutamicum* genome via homologous recombination.

18. (Once Amended) A method of producing L-amino acids selected from the group consisting of L-lysine, L-threonine and L-isoleucine, comprising:
- culturing an altered *Corynebacterium glutamicum* cell having a decreased amount of 6-phosphoglucose isomerase enzymatic activity as compared to an unaltered *Corynebacterium glutamicum* cell wherein said L-amino acid yields from said altered *Corynebacterium glutamicum* cell are greater than yields from an unaltered *Corynebacterium glutamicum* cell.

19. (Once Amended) The method of claim 18, wherein said L-amino acid yields from said altered *Corynebacterium glutamicum* cell are from about 1% to about 100% greater than from said unaltered *Corynebacterium glutamicum* cell.

20. (Once Amended) The method of claim 18, wherein said altered *Corynebacterium glutamicum* cell has a mutant *pgi* gene.

21. (Once Amended) The method of claim 18, wherein said altered *Corynebacterium glutamicum* cell is produced by

- crit  
a  
3  
sub  
c2  
cont
- (a) subcloning an internal region of a *pgi* gene; and  
(b) inserting said resulting vector from step (a) into a *Corynebacterium glutamicum* genome via homologous recombination.
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